

\*\*\*\*\* FERTILIZERS. = Chris... The C... felt thro... showing... Gifts, ... get r... der... b... The C... 22.—Spec... of cotton... to seek ad... college as to... fertilizers this com... meet this demand... per, director of the... experiment station... a bulletin on this sub... other things he states... the soils of South... respond to good treat... and fertilization. It does not... to plant and cultivate crops un... they are well supplied with plant food.

"The most important plant food for the soils of this State," says Prof. Harper, "is nitrogen (ammonia). All of our soils are deficient in this element. This is due to the fact that the nitrates are soluble in water and are constantly leaching out of the land. Therefore unless crops are grown in rotation with the legumes, the farmer must use some form of commercial nitrogen and he should insist that this nitrogen be available. Nitrate of soda, sulphate of ammonia, blood, cotton seed meal, fish scrap and tankage are splendid sources of nitrogen. Cotton seed meal is one of the best and at the present price it is one of the cheapest. Nitrate of soda is also a good source of nitrogen and it will liberate a certain amount of potash in the soil. When applied early in the spring it greatly increases the yield of grain.

"It also pays to use acid phosphate on all types of soil found in this State, excepting where it has accumulated from previous fertilizations. Acid phosphate is not only a valuable plant food, but it is also valuable in that it hastens the maturity of plants, especially cotton, and prevents cotton from running to stalk or weed. "On account of the European war our source of potash, which comes from Germany, has been cut off, causing the price to increase considerably. At the present time it will not pay the farmers of the Piedmont section to use any potash in their fertilizers. The sandy soils of the coastal plain are very deficient in potash and what is on hand should be used for the soils of that region.

"Fertilizers are not amendments or stimulants to plant growth, but furnish the necessary elements of plant food without which they will not grow. Our staple crops take out large amounts of plant food from the soil which must be replaced. The farmers of the State have not acted unwisely in that they have been using fertilizers in large amounts for a number of years. However, under the present conditions with the low price of cotton, we advise the farmers to reduce the amount of fertilizer they will use this coming season.

"There is a considerable amount of plant food stored in our soils as a residual from previous fertilizations which can be called on in this time of need. Practically all the phosphorus that has been applied in acid phosphate to the soils in this State, is still in the first 12 inches, excepting that which has been taken out by plants. Acid phosphate does not wash out of the land as does nitrogen. In our present financial stress we must make good use of the plant food stored in our soils and reduce our fertilizer bill as much as possible.

"We recommend to the farmers of the Piedmont region that they apply to their corn 300 pounds of fertilizer composed of equal parts of acid phosphate and cotton seed meal; this to be applied at the time of planting, and when the corn is waist high a top-dressing of from 50 to 75 pounds of nitrate of soda.

"For cotton we recommend 200 pounds of acid phosphate and 200 pounds of cotton seed meal, applied at the time of planting.

For oats and wheat, we recommend 100 pounds of acid phosphate, 100 pounds of cotton seed meal and 75 pounds of nitrate of soda. The soda should be applied early in March.

"For the coastal plain we recommend for corn 200 pounds of acid phosphate and 200 pounds of cotton seed meal; this to be applied as recommended by the Williamson plan, and 100 pounds of soda to be used when the corn is bunching to tassels. For cotton, 200 pounds of acid phosphate, 200 pounds of cotton seed meal and 25 pounds of muriate of potash and 75 pounds of nitrate of soda to be applied when the squares begin to form. For oats we recommend 150 pounds of acid phosphate, 150 pounds of cotton seed meal. In addition to this 100 pounds of nitrate of soda should be applied in the early spring.

"Where it is considered advisable to use more or less fertilizer per acre than here recommended, we advise that the materials be mixed in the above proportions, due regard

## THE FIGHT AGAINST TYPHOID.

State Health Officer on Inoculation. Oconee Had Eight Cases. (The State, 20th.) Though only 1,299 cases of typhoid fever were reported for the eleven months of this year, the State Board of Health has estimated in its annual report on that disease that there were at least 6,000 cases in the State. The disease was prevalent and the State health officer was called to several places to investigate and determine the causes. In many of the places he found the physicians willing to co-operate and by concerted action managed to start campaigns for typhoid inoculation.

Appended to the report is a statement showing the number of ampoules of typhoid bacterin dispensed by the State Board of Health, amounting to 38,746 for the eleven months of 1914, against 25,258 for all of 1913.

"We believe," writes James A. Hayne, M. D., State health officer, "that this is our greatest weapon in combating this disease and would call attention to the fact that even under the strain of the fierce fighting that is now going on in the trenches in France, the main factor relied upon by the allies for keeping down typhoid fever is compulsory vaccination against the disease. We hope the Legislature will realize what a grand work is being done by our little laboratory and give us sufficient funds to carry out properly our campaign against typhoid."

The number of cases occurring in each county for the year follows:

Abbeville	57
Aiken	28
Anderson	24
Bamberg	8
Barnwell	36
Beaufort	25
Bekeley	11
Calhoun	1
Charleston	259
Cherokee	12
Chester	14
Chesterfield	11
Clarendon	26
Colleton	1
Darlington	17
Dillon	5
Dorchester	13
Edgefield	5
Fairfield	1
Florence	27
Georgetown	1
Greenville	71
Greenwood	10
Hampton	4
Horry	1
Jasper	1
Kershaw	12
Lancaster	5
Laurens	31
Lee	4
Lexington	8
Marion	27
Marlboro	18
Newberry	18
Oconee	8
Orangeburg	73
Pickens	21
Richland	101
Saluda	2
Spartanburg	169
Sumter	39
Union	54
Williamsburg	27
York	20

It Really Does Relieve Rheumatism. Everybody who is afflicted with rheumatism in any form should by all means keep a bottle of Sloan's Liniment on hand. The minute you feel pain or soreness in a joint or muscle, bathe it with Sloan's Liniment. Do not rub it. Sloan's penetrates almost immediately right to the seat of pain, relieving the hot, tender, swollen feeling and making the part easy and comfortable. Get a bottle of Sloan's Liniment for 25 cents of any druggist and have it in the house—against colds, sore and swollen joints, lumbago, sciatic and like ailments. Your muscle back is not satisfied, but it does give almost instant relief. Buy a bottle to-day, ad.

To Exempt Belgians from Ed. Test.

Washington, Dec. 19.—An amendment to the immigration bill to exempt from the proposed literacy test for the next five years Belgians seeking a home in the United States, was introduced to-day by Senator Williams. No action was taken.

Senator Stone had spoken for making an exception in favor of those persecuted for race as well as for religion. Senator Smith, of South Carolina, opposed that on the ground that one who drew religious persecution showed possession of a high moral fibre, while the same could not be said of one persecuted for race. Stone's proposal would admit a flood of ignorance.

Whenever You Need a General Tonic Take Groves'

The Old Standard Groves' Tasteless Tonic is equally valuable as a General Tonic because it contains the well-known tonic properties of QUININE and IRON. It acts on the Liver, Drives out Malaria, Enriches the Blood and Builds up the Whole System. 50 cents.

being made to previous fertilizations, rotations, etc."

## HUNTING HUNDRED BUCKS YET.

Mr. Ellison Hasn't Found Man in Overalls or Money.

(Jasper, Ala., Mountain Eagle.) "The man in overalls" who recently took an envelope addressed to the Jasper Trust Company, which contained one hundred dollars in cash, in many respects one of the most mysterious persons ever heard of in Jasper, has not been located at this writing.

Mr. Ellison, who sent the \$100 to Jasper, writes us that the mysterious person who took the envelope at the Frisco depot and promised to carry it to the trust company, did not wear overalls at all, but was "commonly dressed."

"I would suggest that you use the words 'commonly dressed,' instead of 'shabbily dressed,' as there is quite a difference. I am commonly dressed every day, but not necessarily shabbily dressed."

"The story you have on me is all right and I acknowledge the corn, but that might mislead a little when you state the reward is offered for the return of the contents. That is not the condition of the reward. Twenty-five dollars for information that will establish the identity of the party. I'll take chances on the balance."

"The man was not dressed in overalls, though he may have worn overalls trousers."

Here's a chance for some one to make some Christmas money. Did

## AIKEN'S NEW JEANS SUIT.

Owing to Its Unusual Warmth He Is Staying Out-Doors.

(Cor. Spartanburg Herald.) Washington, Dec. 19.—Representative Wyatt Aiken, of Abbeville, who makes it a point to buy everything that he needs from South Carolina merchants, as far as possible, has gone a step further in the patronizing of home products. He appeared at Mount Vernon church Sunday morning wearing an all-wool "jeans" suit of clothes tailored by an Abbeville coterie, from cloth woven by members of the well-known Nicholson family, residing in the White-water section of Oconee county, on one of the now practically extinct "hand looms" that were common a good many years before Mr. Aiken was born.

This jeans suit had the appearance of a "swell" gray suit, and Mr. Aiken declares that, until within the past few days, when the thermometer in Washington has been flirting with the ten-degree mark, he has found it necessary to get out of doors to keep cool while wearing the "all wool and a yard wide" goods spun from Oconee wool and woven by Oconee women.

no one see a commonly dressed man accept a letter at the Frisco depot on November 14th?

Has no one seen a commonly dressed man in town with a hundred dollars ahead of the game?

## The Battle To Win

### DIVERSIFIED CROPS AND INDEPENDENCE.

The Battle to Kill The All Cotton Practice KANSAS, when a one crop state, was poor with most of her farms mortgaged. Today, with widely diversified crops, it is one of the richest states in the Union—her farmers rich and happy.

The South for 50 years an All Cotton Country is today staggering—hundreds of thousands of her farmers without food or homes—not knowing which way to turn—it's a horrible condition and it is going to take heroic effort and fighting—yes, real battle to bring about Diversified Farming and Independence for Our Southland.

We need great Generals—great leaders to help us in this great battle—but thank God, our Great Ruler—there never was a just and righteous cause to fight for that the leaders were wanting.

In this Great Cause—this great battle for the South's future prosperity, happiness and agricultural greatness, we have a truly great leader—one who has proved his ability and won his spurs by past achievement—one we can all trust.

We have enlisted with the Army under the leadership of this Tried and True Leader and ask and implore our friends and readers to join with us—that we can fight this, the South's Greatest Battle, with the assurance of an early victory.

Under the Leadership of The Progressive Farmer with a battle cry of Diversified Farming and Independence—let us all shoulder arms and forward march—and we will soon be back—Living at Home—Out of Debt—with Surplus Crops as Money Crops and not worrying about what cotton will bring next fall.

Talk won't accomplish anything—thinking about doing something won't get us anywhere—only intelligent action will bring us our rewards. So Act Today—fill out the following blank right now, and get the first commands of your Great General—The Progressive Farmer.

Of course, you must keep posted on the doings of your neighborhood, your county, your State and Nation, so you now need your old Reliable County Paper more than ever—the blank offers you both at "A War Time Bargain Price."

Both these Great Papers Only \$1.50. You owe it to yourself—your family and your State to enter this Great Battle for the South's Independence, so don't hesitate—Don't delay—Act Now.

PUBLISHERS THE KEOWEE COURIER,

Walhalla, S. C. 191...

Dear Sir: There never was anyone in our family who failed to respond to their country's call and I now enlist in this Great War for the South's Independence and will fight with you to the last ditch.

Enclosed find \$1.50 for which send me THE KEOWEE COURIER for one full year and THE PROGRESSIVE FARMER every week for an entire year.

Name ..... P. O. .... R. F. D. .... State .....

Meets Father She Never Saw.

A Wilkesbarre, Pa., special says: L. S. Walker, aged 75, a veteran of the civil war, met his daughter, Mrs. Ida Tennyson, aged 48, of Tennyson, Ind., and his grand-daughter, Mrs. W. A. Sloane, aged 25, of Chicago, to-day, for the first time in his life.

When Lincoln called for volunteers Walker responded and enlisted in the Eighth Pennsylvania volunteers, serving throughout the war. When peace came he settled in Indiana. There he married Miss Eleanor Hook in 1866. Shortly afterward the couple separated. After his departure the present Mrs. Tennyson was born. Mrs. Tennyson learned recently

that her father was alive and applied to the pension department in Washington, where she learned that an L. S. Walker lived at Wyoming. To-day father, daughter and grand-daughter met for the first time.

Colds Are Often Most Serious—Stop Possible Complications.

The disregard of a cold has often brought many a regret. The fact of sneezing, coughing, or a fever should be warning enough that your system needs immediate attention. Certainly loss of sleep is most serious. It is a warning given by nature. It is man's duty to himself to assist by doing his part. Dr. King's New Discovery is based on a scientific analysis of colds. 50c. at your druggist. Buy a bottle to-day.—Adv.

## GAS WELL LIKE A VOLCANO.

Crater 75 Feet in Diameter Formed Near Texas Town.

A Corpus Christi, Texas, dispatch says: Bubbling like a cauldron and with vast bodies of mud, water and slush being hurled as much as 20 feet in the air, the White Point gas field at night presents a scene of an active volcano, with millions of cubic feet of natural gas escaping to the open air through the well in which the blow-out occurred, through two abandoned wells in the field and through every crack, fissure and crevice that can be reached by the gas in its mad escape.

About the mouth of the great well, from which length after length of 1 and 6-inch pipe has been hurled, there is a crater which would hold it is estimated, a four-story building of ordinary city variety.

At about 5 o'clock in the afternoon a terrific subterranean rumbling was heard, jarring the very earth on which stood the derrick and machinery. The gas flow became stronger and what remained of the wooden derrick toppled in the wind and in the enormous pressure from below. Of a sudden the great derrick fell, the timbers scattering themselves over a broad area. One side of the derrick remained intact, however, only to be carried down later into the bowels of the earth, apparently into the boiling sea of mud, with gas bubbles breaking on the surface as water in a tea kettle.

Unannounced the great cave-in occurred, leaving a hole in the earth of perhaps 75 feet in diameter. What remained of the derrick went into this, sinking down to a solid foundation. Much of the machinery which drilled the well was carried into the mass of wreckage and debris, but the well continued to flow.

Until this time it was thought that the well could be capped and the estimated 50,000,000 feet of vapor escaping could be conserved. Now, however, since the pipe has been broken from the top and there is scarcely any perceptible trace of the original hole, except the crater about the well, it is considered an almost impossible feat.

The sight is one which probably could not be duplicated in America with the possible exception of a violent eruption of a volcano. Oil scouts and prospectors have flocked to Corpus Christi since the news of the gas strike was sent broadcast. Some oil men at one time considered the well capable of being capped, but now, since the last event has occurred, it being one of the many hourly developments in the field, it is thought that the well is a total loss. Officials of the company have announced that they have been losing \$15,000 daily since the gas strike was made.

The Liver Regulates the Body—A Sluggish Liver Needs Care.

Some one has said that people with chronic liver complaint should be shut up away from humanity, for they are pessimists and see through a "glass darkly." Why? Because mental states depend upon physical states. Biliousness, headaches, dizziness and constipation disappear after using Dr. King's New Life Pills. 25c. at your druggist.—Adv.

Fulton Made Torpedoes.

New York, Dec. 19.—A letter from Robert Fulton to Gen. William Duane, March 1, 1813, telling of torpedoes invented by him capable of destroying any British invaders of New York harbor, was sold for \$92.50 yesterday in the Anderson auction rooms, from the library of the late Adrian H. Joline.

"I am happy to find you continue the firm friend to torpedoes," Fulton wrote—"an infant art which requires only support and practice to produce a change in maritime affairs of immense importance to this country. Expecting the enemy here, I have not been idle. I have prepared five torpedoes, with locks that strike fire by concussion, and four with clockwork locks."

Geo. D. Smith was the buyer of the letter.

There is more catarrh in this section of the country than all other diseases put together, and until the last few years was supposed to be incurable. For a great many years doctors pronounced it a local disease and prescribed local remedies, and by constantly failing to cure with local treatment, pronounced it incurable. Science has proven catarrh to be a constitutional disease, and therefore requires constitutional treatment. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, Ohio, is the only constitutional cure on the market. It is taken internally. It acts directly on the blood and mucous surfaces of the system. They offer one hundred dollars for any case it fails to cure. Send for circulars and testimonials. Address F. J. Cheney & Co., Toledo, O. Sold by druggists, 75c. Take Hall's Family Pills for constipation.—Adv.

## TROOPS FROM TROPICS SUFFER.

Many of the Senegalese Lose Toes and Feet.

London, Dec. 20.—Troops from the tropics are suffering intensely from the cold in Belgium. This is especially true of the Senegalese. In many cases their toes or feet have been frozen so badly that amputation has been necessary, according to Mrs. Harry Floyd, chief commissioner of the French wounded emergency fund, who has just returned from the hospitals at Havre, Lisieux, Bayeux, Deauville and other points. Mrs. Floyd says many of the hospital are badly in need of anaesthetics, tetanus serum, surgical instruments and surgeons.

"In one hospital I saw Senegalese operated upon without the use of an anaesthetic," said Mrs. Floyd. "Their toes had been frozen and immediate amputation was necessary. All the toes of one Senegalese were removed without a groan from him. Suddenly he leaped from the operating table and began searching for something. The doctors and nurses could not discover what he wanted. He found a pipe, filled it and lay down, smoking to deaden the pain. Then he began to pray in a low voice. When a nurse offered to bring luncheon to him he refused, walking to the convalescents' table, where he ate with his friends.

"The courage and heroism of these men is simply beyond belief. They never complain. They always urge the nurses to attend to others.

"Blankets, heavy woolen clothing and socks are badly needed at the hospitals and convalescents' homes. The weakened soldiers suffer intensely, and their recovery is delayed by lack of comforts.

"Typhoid fever now seems to have been checked, but gangrene presents a frightful menace because of the lack of serum. There is also a great need of electrical equipment to treat rheumatism and paralysis caused by neglected wounds."

Lack of supplies in the hospitals is due to the fact that they are not obtainable in France or have been delayed in transportation.

Piles Cured in 6 to 14 Days Your druggist will refund money if PAZO OINTMENT fails to cure any case of Itching, Blind, Bleeding or Protruding Piles in 6 to 14 days. The first application gives Relief and Rest. 50c.

I will attend to the pension office at the Court House each Saturday in the month of January, 1915, for the purpose of preparing applications in proper form to go before the County Pension Board, which is hereby called to meet at the Court House on the first Monday in February, 1915, to pass upon said applications and transact any other business that may be properly brought before said board.

J. W. Holleman, Pension Commissioner.

Cures Old Sores, Other Remedies Won't Cure. The worst cases, no matter how long standing, are cured by the wonderful, old reliable Dr. Porter's Antiseptic Healing Oil. It relieves Pain and Heals at the same time. 25c, 50c, \$1.00

Majority for Nation-Wide Prohi.

Washington, Dec. 19.—Representative Hobson declared to-day that a canvass he had made of the House showed that advocates of his proposal for nation-wide prohibition commanded a majority, but that its adoption was uncertain. The rule providing for a vote on the resolution, ready to be presented on December 22, requires a majority vote, while the adoption of the resolution requires two-thirds vote.

HELP THE KIDNEYS.

Walhalla Readers Are Learning the Way.

It's the little kidney ills—The lame, weak or aching back—The unnoticed urinary disorders—That may lead to dropsy and Bright's disease.

When the kidneys are weak, Help them with Doan's Kidney Pills.

A remedy especially for weak kidneys. Doan's have been used in kidney troubles for 50 years.

Endorsed by 30,000 people—endorsed at home.

Proof in a Walhalla citizen's statement.

Mrs. Martha Driscoll, 9 Factory Hill, Walhalla, S. C., says: "My kidneys were in bad shape. I had severe attacks of backache and pains in my sides. I was also subject to dizzy and nervous spells. Seeing Doan's Kidney Pills advertised, I got a supply at Dr. Bell's drug store. They restored me to good health."

Price 50c. at all dealers. Don't simply ask for a kidney remedy—get Doan's Kidney Pills—the same that Mrs. Driscoll had. Foster-Milburn Co., Props., Buffalo, N. Y.—Adv.